

SAF-RC-040
300 Area D&D Waste Characterization
Sampling - Other Solid
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Mike Stankovich

L1-01

KW 12/27/07
INITIAL/DATE

RECEIVED
JAN 03 2008
EDMC

COMMENTS:

SDG 07-A-6662

SAF-RC-040

Rad only

☒ Chem only

Rad & Chem

☒ Complete

Partial

Sample Location/Waste Site: 300 Area 309 Bldg.



12/20/07
Page 1 of 14

SUBMITTED TO:


Joan Kessner
Washington Closure Hanford
2620 Fermi Avenue, MSIN H4-21
Richland, WA 99354



REFERENCE DATA:

Client Sample No.:	J162C8 through J162K6
P.O. No.:	Not Available
Sample Location:	309
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	07-A-6662
DCL Sample ID No.:	07-38782 through 07-38831
Sample Receipt Date:	11/21/07
Analysis Date:	12/14/07 through 12/20/07

We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using EPA-600/R-93/116. The samples were acceptable upon receipt except where noted. The samples were examined under a stereomicroscope in a laboratory fume hood for general composition and phase separation. If needed, portions of the sample were removed and ground with a mortar and pestle before being mounted on a glass microscope slide. Mountings of representative portions of the material are prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the materials analyzed and are summarized on the attached bulk asbestos analysis data sheets. DataChem Laboratories will dispose of all bulk samples after 60 days unless other arrangements are made.


Shawn Smythe
Analyst


Anna Marie Ristich
Reviewer

*Floor tiles, decorative paints, joint compounds, and cement materials require additional treatment in order to evaluate the concentration of small asbestos fibers bound in the material. Some samples may contain fibers that are not visible by PLM and can only be detected by electron microscopy techniques. Floor tiles are analyzed as homogeneous materials if insufficient mastic is present or if phases have been cross contaminated.

DataChem Laboratories NVLAP Lab ID: 101917. Laboratory accreditation by the National Institute of Standards and Technology does not in any way constitute approval or endorsement by NVLAP, NIST, or any agency of the federal government..

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NOVATO, CALIFORNIA 94945
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12/20/07

DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report


Client: Washington Closure Hanford
 Location: 309
 Set ID: 07-A-6662

Client Sample ID:	J162C8	J162C8	J162C9	J162C9	J162D0
DCL Sample ID:	07-38782A	07-38782B	07-38783A	07-38783B	07-38784
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Layered	Layered	Homog.
Color:	Green	Black	Grey	Black	Grey
Texture:	Compact	Resinous	Compact	Resinous	Crmby/Fbrs
Description:	Tile	Mastic	Tile	Mastic	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:	>1 ≤ 3		>1 ≤ 3		>3 ≤ 5
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>1 ≤ 3	ND	>1 ≤ 3	ND	>3 ≤ 5
Other Materials					
% Cellulose:		>1 ≤ 3		>1 ≤ 3	
% Fiberglass:					
% Other Fibers:					
% Resin/Binder:	>10 ≤ 20	>70 ≤ 80	>10 ≤ 20	>70 ≤ 80	
% Non Fibrous:	>70 ≤ 80	>10 ≤ 20	>70 ≤ 80	>10 ≤ 20	>90 ≤ 100

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


 Shawn Smythe
 Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

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DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report


Client: Washington Closure Hanford
Location: 309
Set ID: 07-A-6662

Client Sample ID:	J162D1	J162D2	J162D3	J162D4	J162D5
DCL Sample ID:	07-38785	07-38786	07-38787	07-38788	07-38789
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Homog.	Homog.	Homog.	Homog.
Color:	Grey	Grey	Grey	Grey	Grey
Texture:	Fbrs/Crmby	Crmby/Fbrs	Crmby/Fbrs	Crmby/Fbrs	Crmby/Fbrs
Description:	Ceiling Tile	Material	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:		>3 ≤ 5	>3 ≤ 5	>3 ≤ 5	>3 ≤ 5
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	ND	>3 ≤ 5	>3 ≤ 5	>3 ≤ 5	>3 ≤ 5
Other Materials					
% Cellulose:	>40 ≤ 50				
% Fiberglass:	>20 ≤ 30				
% Other Fibers:					
% Resin/Binder:					
% Non Fibrous:	>10 ≤ 20	>90 ≤ 100	>90 ≤ 100	>90 ≤ 100	>90 ≤ 100

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


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**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**

Client: Washington Closure Hanford

Location: 309


Set ID: 07-A-6662

Client Sample ID:	J162D6	J162D7	J162D8	J162D9	J162F0
DCL Sample ID:	07-38790	07-38791	07-38792	07-38793	07-38794
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Layered Inseparable	Homog.	Homog.	Homog.
Color:	Grey	Grey	Grey	Grey	Grey
Texture:	Crmbly/Fbrs	Crmbly/Fbrs	Crumbly	Crumbly	Crumbly
Description:	Material	Material	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:	>3 ≤ 5	>1 ≤ 3			
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>3 ≤ 5	>1 ≤ 3	ND	ND	ND
Other Materials					
% Cellulose:					
% Fiberglass:					
% Other Fibers:					
% Resin/Binder:					
% Non Fibrous:	>90 ≤ 100	>90 ≤ 100	>90 ≤ 100	>90 ≤ 100	>90 ≤ 100

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


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DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report

Client: Washington Closure Hanford

Location: 309


Set ID: 07-A-6662

Client Sample ID:	J162F1	J162F2	J162F3	J162F3	J162F4
DCL Sample ID:	07-38795	07-38796	07-38797A	07-38797B	07-38798
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Homog.	Layered	Layered	Layered
Color:	Grey	Grey	Brown	Yellow	Inseparable
Texture:	Crumbly	Crumbly	Flexible	Flexible	Grey/Yellow
Description:	Material	Material	Covebase	Mastic	Cmpt/Crmby
Analysis:	PLM	PLM	PLM	PLM	Tile/Mastic
Asbestiform Minerals					
% Chrysotile:					>1 ≤ 3
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	ND	ND	ND	ND	>1 ≤ 3
Other Materials					
% Cellulose:					
% Fiberglass:					
% Other Fibers:					
% Resin/Binder:			>20 ≤ 30	>60 ≤ 70	>10 ≤ 20
% Non Fibrous:	>90 ≤ 100	>90 ≤ 100	>60 ≤ 70	>20 ≤ 30	>70 ≤ 80

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


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**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: 309
Set ID: 07-A-6662

Client Sample ID:	J162F5	J162F5	J162F5	J162F6	J162F6
DCL Sample ID:	07-38799A	07-38799B	07-38799C	07-38800A	07-38800B
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Layered	Layered	Layered
Color:	Brown	Black	Tan	Brown	Black
Texture:	Compact	Resinous	Resinous	Compact	Resinous
Description:	Tile	Mastic	Mastic	Tile	Mastic
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:	>1 ≤ 3			>1 ≤ 3	
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>1 ≤ 3	ND	ND	>1 ≤ 3	ND
Other Materials					
% Cellulose:					
% Fiberglass:					
% Other Fibers:					
% Resin/Binder:	>10 ≤ 20	>70 ≤ 80	>70 ≤ 80	>10 ≤ 20	>70 ≤ 80
% Non Fibrous:	>70 ≤ 80	>10 ≤ 20	>10 ≤ 20	>70 ≤ 80	>10 ≤ 20

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


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**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: 309
Set ID: 07-A-6662

Client Sample ID:	J162F7	J162F7	J162F8	J162F8	J162F9
DCL Sample ID:	07-38801A	07-38801B	07-38802A	07-38802B	07-38803A
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Layered	Layered	Layered
Color:	Brown	Black	Black	Brown	Black
Texture:	Compact	Resinous	Flexible	Crumbly	Flexible
Description:	Tile	Mastic	Covebase	Mastic	Covebase
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:	>1 ≤ 3				
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>1 ≤ 3	ND	ND	ND	ND
Other Materials					
% Cellulose:					
% Fiberglass:					
% Other Fibers:					
% Resin/Binder:	>10 ≤ 20	>70 ≤ 80	>20 ≤ 30	>70 ≤ 80	>20 ≤ 30
% Non Fibrous:	>70 ≤ 80	>10 ≤ 20	>60 ≤ 70	>10 ≤ 20	>60 ≤ 70

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


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DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report

Client: Washington Closure Hanford

Location: 309


Set ID: 07-A-6662

Client Sample ID:	J162F9	J162H0	J162H0	J162H1	J162H2
DCL Sample ID:	07-38803B	07-38804A	07-38804B	07-38805	07-38806
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Layered	Homog.	Homog.
Color:	Brown	Grey	Brown	Grey	Grey
Texture:	Crumbly	Fbrs/Crmby	Crumbly	Crumbly	Crmby/Fbrs
Description:	Mastic	Ceiling Tile	Mastic	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:					>1 ≤ 3
% Amosite:					>20 ≤ 30
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	ND	ND	ND	ND	>21 ≤ 33
Other Materials					
% Cellulose:		>40 ≤ 50			
% Fiberglass:		>20 ≤ 30			
% Other Fibers:					
% Resin/Binder:	>70 ≤ 80		>70 ≤ 80		
% Non Fibrous:	>10 ≤ 20	>10 ≤ 20	>10 ≤ 20	>90 ≤ 100	>60 ≤ 70

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


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**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**

Client: Washington Closure Hanford

Location: 309


Set ID: 07-A-6662

Client Sample ID:	J162H3	J162H4	J162H5	J162H6	J162H7
DCL Sample ID:	07-38807	07-38808	07-38809	07-38810	07-38811
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Homog.	Homog.	Homog.	Homog.
Color:	Grey	Grey	Grey	Grey	Grey
Texture:	Crmby/Fbrs	Crmby/Fbrs	Crmby/Fbrs	Fibrous	Crmby/Fbrs
Description:	Material	Material	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:	>5 ≤ 10	>3 ≤ 5		>20 ≤ 30	>3 ≤ 5
% Amosite:	>3 ≤ 5	>20 ≤ 30	>20 ≤ 30		>20 ≤ 30
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>8 ≤ 15	>23 ≤ 35	>20 ≤ 30	>20 ≤ 30	>23 ≤ 35
Other Materials					
% Cellulose:				>40 ≤ 50	
% Fiberglass:	>10 ≤ 20				
% Other Fibers:	>3 ≤ 5				>3 ≤ 5
% Resin/Binder:					
% Non Fibrous:	>50 ≤ 60	>60 ≤ 70	>60 ≤ 70	>10 ≤ 20	>50 ≤ 60

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Special Prep Procedures: None.

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**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: 309
Set ID: 07-A-6662

Client Sample ID:	J162H8	J162H9	J162H9	J162J0	J162J0
DCL Sample ID:	07-38812	07-38813A	07-38813B	07-38814A	07-38814B
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Layered	Layered	Layered	Layered
Color:	Grey	Brown	Black	Grey	Brown
Texture:	Fbrs/Crmby	Fibrous	Crumbly	Fbrs/Crmby	Crumbly
Description:	Ceiling Tile	Ceiling Tile	Mastic	Ceiling Tile	Mastic
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:					
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	ND	ND	ND	ND	ND
Other Materials					
% Cellulose:	>40 ≤ 50	>80 ≤ 90		>40 ≤ 50	
% Fiberglass:	>20 ≤ 30			>20 ≤ 30	
% Other Fibers:			Trace		
% Resin/Binder:			>60 ≤ 70		>60 ≤ 70
% Non Fibrous:	>10 ≤ 20	>5 ≤ 10	>20 ≤ 30	>10 ≤ 20	>20 ≤ 30

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


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**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: 309
Set ID: 07-A-6662

Client Sample ID:	J162J1	J162J1	J162K7	J162J2	J162J3
DCL Sample ID:	07-38815A	07-38815B	07-38816	07-38817	07-38818
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Homog.	Layered Inseparable	Homog.
Color:	Grey	Black	Grey	Grey/Tan	Grey
Texture:	Compact	Resinous	Crmby/Fbrs	Cmpt/Crmby	Crmby/Fbrs
Description:	Tile	Mastic	Material	Tile/Mastic	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:	>1 ≤ 3	>3 ≤ 5			>10 ≤ 20
% Amosite:					>3 ≤ 5
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>1 ≤ 3	>3 ≤ 5	ND	ND	>13 ≤ 25
Other Materials					
% Cellulose:					
% Fiberglass:			>20 ≤ 30		>10 ≤ 20
% Other Fibers:			>5 ≤ 10		>5 ≤ 10
% Resin/Binder:	>10 ≤ 20	>70 ≤ 80		>10 ≤ 20	
% Non Fibrous:	>70 ≤ 80	>10 ≤ 20	>50 ≤ 60	>70 ≤ 80	>40 ≤ 50

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


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**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**

Client: Washington Closure Hanford

Location: 309


Set ID: 07-A-6662

Client Sample ID:	J162J4	J162J5	J162J6	J162J7	J162J8
DCL Sample ID:	07-38819	07-38820	07-38821	07-38822	07-38823
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Homog.	Homog.	Homog.	Homog.
Color:	Grey	Grey	Grey	Grey	Grey
Texture:	Crmby/Fbrs	Crmby/Fbrs	Crmby/Fbrs	Crmby/Fbrs	Crmby/Fbrs
Description:	Material	Material	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:	>10 ≤ 20	>10 ≤ 20			
% Amosite:	>3 ≤ 5	>3 ≤ 5			
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>13 ≤ 25	>13 ≤ 25	ND	ND	ND
Other Materials					
% Cellulose:					
% Fiberglass:	>10 ≤ 20	>10 ≤ 20	>20 ≤ 30	>20 ≤ 30	>30 ≤ 40
% Other Fibers:	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10	
% Resin/Binder:					
% Non Fibrous:	>40 ≤ 50	>40 ≤ 50	>50 ≤ 60	>50 ≤ 60	>50 ≤ 60

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


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**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: 309
Set ID: 07-A-6662

Client Sample ID:	J162J9	J162K0	J162K1	J162K2	J162K3
DCL Sample ID:	07-38824	07-38825	07-38826	07-38827	07-38828
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Homog.	Homog.	Homog.	Homog.
Color:	Grey	Grey	Grey	Grey	Grey
Texture:	Crmby/Fbrs	Crmby/Fbrs	Crmby/Fbrs	Crmby/Fbrs	Crmby/Fbrs
Description:	Material	Material	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:					
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	ND	ND	ND	ND	ND
Other Materials					
% Cellulose:					
% Fiberglass:	>20 ≤ 30	>30 ≤ 40	>20 ≤ 30	>30 ≤ 40	>30 ≤ 40
% Other Fibers:	>5 ≤ 10		>5 ≤ 10		
% Resin/Binder:					
% Non Fibrous:	>50 ≤ 60	>50 ≤ 60	>50 ≤ 60	>50 ≤ 60	>50 ≤ 60

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


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**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: 309
Set ID: 07-A-6662

Client Sample ID:	J162K4	J162K5	J162K6
DCL Sample ID:	07-38829	07-38830	07-38831
Macroscopic Examination			
Accepted/Rejected:	Accepted	Accepted	Accepted
Homogeneity:	Layered Inseparable	Homog.	Homog.
Color:	Yellow/Grey	Grey/Yellow	Grey/Yellow
Texture:	Fbrs/Crmby	Crmby/Fbrs	Crmby/Fbrs
Description:	Material	Material	Material
Analysis:	PLM	PLM	PLM
Asbestiform Minerals			
% Chrysotile:			
% Amosite:			
% Crocidolite:			
% Tremolite - Actinolite:			
% Anthophyllite:			
% Total Asbestos:	ND	ND	ND
Other Materials			
% Cellulose:			
% Fiberglass:	>50 ≤ 60	>30 ≤ 40	>30 ≤ 40
% Other Fibers:	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10
% Resin/Binder:			
% Non Fibrous:	>20 ≤ 30	>40 ≤ 50	>40 ≤ 50

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting, ... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-338		Page 4 of 10	
Collector Mike Stankovich		Company Contact MT Stankovich		Telephone No. 531-7620		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days	
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 309		SAF No. RC-040					
Ice Chest No. Fed Ex Box		Field Logbook No. EL-1518-9		COA See below		Method of Shipment Federal Express			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A080036		Bill of Lading/Air Bill No. See OSPC					
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos & Be Special Handling and/or Storage		Preservation		None					
		Type of Container		GP					
		No. of Container(s)		1					
		Volume		5g					
SAMPLE ANALYSIS 07-A-6662				Asbestos-BULK-EPA					
Sample No. 07-		Matrix *		Sample Date		Sample Time			
J162C8 38782		OTHER SOLID		11/20/07		0730		X	
J162C9 38783		OTHER SOLID		11/20/07		0733		X	
J162D0 38784		OTHER SOLID		11/20/07		0736		X	
J162D1 38785		OTHER SOLID		11/20/07		0739		X	
J162D2 38786		OTHER SOLID		11/20/07		0742		X	
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS			
Relinquished By/Removed From		Date/Time 11/20/07		Received By/Stored In		Date/Time 11-20-07 1030		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 Matrix * S=Soil SB=Soil/Stone SO=Solid Sl=Sludge W=Water O=Oil A=Air DS=Dry Solids DL=Dry Liquids T=Tissue Wt=Wipe L=Liquid V=Vegetation X=Other	
Relinquished By/Removed From		Date/Time 11-20-07 1500		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
LABORATORY SECTION		Received By		Title		Date/Time			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time			

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-338		Page 2 of 10								
Collector Mike Stankovich		Company Contact MT Stankovich		Telephone No. 531-7620		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days								
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 309		SAF No. RC-040												
Ice Chest No. Fed Ex Box		Field Logbook No. EL-1518-9		COA See below		Method of Shipment Federal Express										
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A080036				Bill of Lading/Air Bill No. See OSPC										
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos & Re Special Handling and/or Storage					Preservation	None										
					Type of Container	GP										
					No. of Container(s)	1										
					Volume	5g										
SAMPLE ANALYSIS					Asbestos- BULK-EPA											
6662																
Sample No.	Matrix *	Sample Date	Sample Time													
J162D3 38787	OTHER SOLID	11/20/07	0745	X												
J162D4 38788	OTHER SOLID		0748	X												
J162D5 38789	OTHER SOLID		0751	X												
J162D6 38790	OTHER SOLID		0754	X												
J162D7 38791	OTHER SOLID		0757	X												
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS						Matrix *				
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 S=Soil SS=Sediment SO=Solid SI=Sludge W=Water O=Oil A=Air DS=Dry Solids DL=Dry Liquids T=Trace WI=Wipe L=Liquid V=Vegetation X=Other								
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time										
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time										
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time										
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time										
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time										
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time										
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time										
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time										
LABORATORY SECTION		Received By		Title		Date/Time										
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time										

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-338		Page 6 of 10	
Collector Mike Stankovich		Company Contact MT Stankovich		Telephone No. 531-7620		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround	
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 309		SAF No. RC-040		7 Days			
Ice Chest No. Fed Ex Box		Field Logbook No. EL-1518-9		COA See below					
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A080036				Method of Shipment Federal Express			
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos & Be		Bill of Lading/Air Bill No. See OSPC							
Special Handling and/or Storage		Preservation		None					
		Type of Container		G/P					
		No. of Container(s)		1					
		Volume		5g					
SAMPLE ANALYSIS 66602				Asbestos-BULK-EPA					
Sample No.		Matrix *		Sample Date		Sample Time			
J162D8 38792		OTHER SOLID		11/20/07		0800		X	
J162D9 38793		OTHER SOLID		11/20/07		0803		X	
J162F0 38794		OTHER SOLID		1		0806		X	
J162F1 38795		OTHER SOLID		1		0809		X	
J162F2 38796		OTHER SOLID		1		0812		X	
CHAIN OF POSSESSION		Sign/Print Names		SPECIAL INSTRUCTIONS					
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 Matrix * S=Soil SB=Soilment SO=Solid SL=Sludge W = Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue W=Wipe L=Liquid V=Vegetation X=Other	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
LABORATORY SECTION		Received By		Title		Date/Time			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time			

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-338		Page 2 of 10	
Collector Mike Stankovich		Company Contact MT Stankovich		Telephone No. 531-7620		Project Coordinator KESSNER, JH		Price Code 9K	
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 309		SAF No. RC-040		Data Turnaround 7 Days			
Ice Chest No. Fed Ex Box		Field Logbook No. EL-1518-9		COA See below		Method of Shipment Federal Express			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A080034				Bill of Lading/Air Bill No. See OSPC			
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos & Be Special Handling and/or Storage		Preservation		None					
		Type of Container		G/P					
		No. of Container(s)		1					
		Volume		5g					
SAMPLE ANALYSIS 6662				Asbestos-BULK-EPA					
Sample No.	Matrix *	Sample Date	Sample Time						
J162F3 38777	OTHER SOLID	11/20/07	0815	X					
J162F4 38778	OTHER SOLID	✓	0818	X					
J162F5 38779	OTHER SOLID		0821	X					
J162F6 38800	OTHER SOLID		0824	X					
J162F7 38801	OTHER SOLID		0827	X					
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS			
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time	Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 Matrix * S=Soil SE=Settlement SO=Solid SI=Sludge W=Water O=Oil A=Air DS=Dry Solid DL=Dry Liquid T=Tracer W=Wipe L=Liquid V=Vegetation X=Other			
MT Stankovich		11/20/07 1030	MT Stankovich		11-20-07 1030				
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time				
WCH		11-20-07 1500	FED EX						
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time				
			[Signature]		11/21/07				
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time				
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time				
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time				
LABORATORY SECTION		Received By		Title		Date/Time			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time			

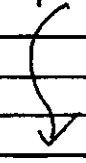
Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-338		Page 8 of 10									
Collector Mike Stankovich		Company Contact MT Stankovich		Telephone No. 531-7620		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days									
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 309		SAF No. RC-040													
Ice Chest No. Fed Ex Box		Field Logbook No. EL-1518-9		COA See below		Method of Shipment Federal Express											
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A080036		Bill of Lading/Air Bill No. See OSPC													
POSSIBLE SAMPLE HAZARDS/REMARKS <i>Asbestos & Be</i> Special Handling and/or Storage				Preservation	None												
				Type of Container	G/P												
				No. of Container(s)	1												
				Volume	5g												
SAMPLE ANALYSIS <div style="font-size: 2em; text-align: center;">6662</div>				Asbestos- BULK-EPA													
Sample No.	Matrix *	Sample Date	Sample Time														
J162F8 38802	OTHER SOLID	11/20/07	0830	K													
J162F9 38803	OTHER SOLID	↓	0833	X													
J162H0 38804	OTHER SOLID		0836	X													
J162H1 38805	OTHER SOLID		0842	X													
J162H2 38806	OTHER SOLID		0845	X													
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00						Matrix * S=Soil SE=Sediment SO=Solid SL=Sediment W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue W=Wipe L=Liquid V=Vegetation X=Other					
Relinquished By/Removed From		Date/Time	1030	Received By/Stored In										Date/Time	11-20-07 1030		
Relinquished By/Removed From		Date/Time	WCH	Received By/Stored In										Date/Time			
Relinquished By/Removed From		Date/Time	11-20-07 1500	Received By/Stored In										Date/Time	11/21/07		
Relinquished By/Removed From		Date/Time		Received By/Stored In										Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In										Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time											
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time											
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time											
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time											
LABORATORY SECTION		Received By		Title						Date/Time							
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By						Date/Time							

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-338		Page 2 of 10	
Collector Mike Stankovich		Company Contact MT Stankovich		Telephone No. 531-7620		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days	
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 309		SAF No. RC-040					
Ice Chest No. Fed Ex Box		Field Logbook No. EL-1518-9		COA See below		Method of Shipment Federal Express			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A080036		Bill of Lading/Air Bill No. See OSPC					
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos & Be				Preservation None					
Special Handling and/or Storage				Type of Container G/P					
				No. of Container(s) 1					
				Volume 5g					
SAMPLE ANALYSIS 6662				Asbestos- BULK-EPA					
Sample No.	Matrix *	Sample Date	Sample Time						
J162H3 38807	OTHER SOLID	11/20/07	0848	X					
J162H4 38808	OTHER SOLID		0851	X					
J162H5 38809	OTHER SOLID		0854	X					
J162H6 38810	OTHER SOLID		0857	X					
J162H7 38811	OTHER SOLID		0900	X					
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS				Matrix *	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00	
M. Stankovich		11/20/07 1030		K. Stankovich		11-20-07 1030			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
K. Stankovich		11-20-07 1500		FED EX					
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
						11/21/07			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
LABORATORY SECTION		Received By		Title		Date/Time			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time			

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-338		Page 10 of 10	
Collector Mike Stankovich		Company Contact MT Stankovich		Telephone No. 531-7620		Project Coordinator KESSNER, JH		Price Code 9K	
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 309		SAF No. RC-040		Data Turnaround 7 Days			
Ice Chest No. Fed Ex Box		Field Logbook No. EL-1518-9		COA See below		Method of Shipment Federal Express			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A080036				Bill of Lading/Air Bill No. See OSPC			
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos & Be Special Handling and/or Storage		Preservation		None					
		Type of Container		GP					
		No. of Container(s)		1					
		Volume		5g					
SAMPLE ANALYSIS <div style="font-size: 2em; text-align: center;">6662</div>				Asbestos-BULK-EPA					
Sample No.	Matrix *	Sample Date	Sample Time						
J162H8 38812	OTHER SOLID	11/20/07	0903	X					
J162H9 38813	OTHER SOLID		0906	X					
J162J0 38814	OTHER SOLID		0909	X					
J162J1 38815	OTHER SOLID		0912	X					
J162K758816	Other Solid		1000	X					
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS				Matrix * S=Soil SE=Sediment SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue W=Wipe L=Liquid V=Vegetation X=Other	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
M. Stankovich		11/20/07 1030		M. Stankovich		11-20-07 1030			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
M. Stankovich		11-20-07 1030		F. E. X					
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
LABORATORY SECTION		Received By		Title		Date/Time			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time			

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-339		Page 1 of 10		
Collector Mike Stankovich		Company Contact MT Stankovich		Telephone No. 531-7620		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days		
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 309		SAF No. RC-040						
Ice Chest No. Fed Ex Box		Field Logbook No. EL-1518-9		COA See below		Method of Shipment Federal Express				
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A080036		Bill of Lading/Air Bill No. See OSPC						
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos & Be Special Handling and/or Storage		Preservation		None						
		Type of Container		G/P						
		No. of Container(s)		1						
		Volume		5g						
SAMPLE ANALYSIS <div style="font-size: 2em; text-align: center;">6662</div>				Asbestos-BULK-EPA						
Sample No.	Matrix *	Sample Date	Sample Time							
J162J2 38817	OTHER SOLID	11/20/07	0915	X						
J162J3 38818	OTHER SOLID	f	0918	X						
J162J4 38819	OTHER SOLID		0921	X						
J162J5 38820	OTHER SOLID		0924	X						
J162J6 38821	OTHER SOLID		0927	X						
CHAIN OF POSSESSION				Sign/Print Names				SPECIAL INSTRUCTIONS		
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2P00 Matrix * S=Soil SE=Sediment SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue W=Wipe L=Liquid V=Vegetation X=Other			
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time					
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time					
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time					
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time					
LABORATORY SECTION		Received By		Title		Date/Time				
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time				

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST					RC-040-339		Page 2 of 10			
Collector Mike Stankovich		Company Contact MT Stankovich		Telephone No. 531-7620		Project Coordinator KESSNER, JH		Price Code 9K		Data Turnaround 7 Days		
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 309		SAF No. RC-040								
Ice Chest No. Fed Ex Box		Field Logbook No. EL-1518-9		COA See below		Method of Shipment Federal Express						
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A080036				Bill of Lading/Air Bill No. See OSPC						
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos & Be Special Handling and/or Storage				Preservation	None							
				Type of Container	GP							
				No. of Container(s)	1							
				Volume	5g							
SAMPLE ANALYSIS 66602					Asbestos-BULK-EPA							
Sample No.	Matrix *	Sample Date	Sample Time									
J162J7 38822	OTHER SOLID	11/20/07	0930	X								
J162J8 38823	OTHER SOLID		0933	X								
J162J9 38824	OTHER SOLID		0936	X								
J162K0 38825	OTHER SOLID		0939	X								
J162K1 38826	OTHER SOLID		0942	X								
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00						
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time							
<i>[Signature]</i>		11/20/07	<i>[Signature]</i>		11-20-07 1030							
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time							
<i>[Signature]</i>		11-20-07 1500	<i>[Signature]</i>		FED EX							
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time							
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time	Matrix * S=Soil SE=Soil/Sediment SD=Solid ST=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Trace W=Wipe L=Liquid V=Vegetation X=Other						
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time							
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time							
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time							
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time							
Relinquished By/Removed From		Date/Time	Received By/Stored In		Date/Time							
LABORATORY SECTION		Received By		Title		Date/Time						
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time						

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-339		Page 3 of 10									
Collector Mike Stankovich		Company Contact MT Stankovich		Telephone No. 531-7620		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days									
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 309		SAF No. RC-040													
Ice Chest No. Fed Ex Box		Field Logbook No. EL-1518-9		COA See below		Method of Shipment Federal Express											
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A080036		Bill of Lading/Air Bill No. See OSPC													
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos & Be Special Handling and/or Storage				Preservation	None												
				Type of Container	G/P												
				No. of Container(s)	1												
				Volume	5g												
SAMPLE ANALYSIS 66002				Asbestos-BULK-EPA													
Sample No.	Matrix *	Sample Date	Sample Time														
J162K2 38822	OTHER SOLID	11/20/07	0945	X													
J162K3 38828	OTHER SOLID		0948	X													
J162K4 38829	OTHER SOLID		0951	X													
J162K5 38830	OTHER SOLID		0954	X													
J162K6 38831	OTHER SOLID		0957	X													
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00						Matrix * S=Soil SE=Sediment SO=Solid Sl=Sludge W=Water O=Oil A=Air DS=Drown Solids DL=Drown Liquids T=Tissue Wt=Wipe L=Liquid V=Vegetation X=Other					
Relinquished By/Removed From		Date/Time		Received By/Stored In										Date/Time			
<i>M. Stankovich</i>		11/20/07 1030		<i>M. Stankovich</i>										11-20-07 1030			
Relinquished By/Removed From		Date/Time		Received By/Stored In										Date/Time			
<i>M. Stankovich</i>		11-20-07 1500		FED EX													
Relinquished By/Removed From		Date/Time		Received By/Stored In										Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time											
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time											
LABORATORY SECTION		Received By		Title						Date/Time							
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By						Date/Time							